|          | Index of Claims |          |                                                  |              |                |           |          |          |          |            |            |   |          | Aŗ                           | Application/Control No.    |              |                |        |        |              |                 |          |       |            | Applicant(s)/Patent under Reexamination |           |              |          |          |                        |           |           |  |  |
|----------|-----------------|----------|--------------------------------------------------|--------------|----------------|-----------|----------|----------|----------|------------|------------|---|----------|------------------------------|----------------------------|--------------|----------------|--------|--------|--------------|-----------------|----------|-------|------------|-----------------------------------------|-----------|--------------|----------|----------|------------------------|-----------|-----------|--|--|
|          |                 |          |                                                  |              |                |           |          |          |          |            |            |   |          | 40/000 050                   |                            |              |                |        |        |              |                 |          |       |            |                                         |           |              |          |          |                        |           |           |  |  |
|          |                 |          |                                                  |              |                |           |          |          |          |            |            |   |          |                              | 10/069,950<br>Examiner     |              |                |        |        |              |                 |          |       |            | GAUBERT ET AL. Art Unit                 |           |              |          |          |                        |           |           |  |  |
|          |                 |          |                                                  |              |                |           |          |          |          |            |            |   |          |                              |                            |              |                |        |        |              |                 |          |       |            |                                         |           |              |          |          |                        |           |           |  |  |
|          |                 |          |                                                  |              |                |           |          |          |          |            |            |   |          |                              | Gollamudi S. Kishore, Ph.D |              |                |        |        |              |                 |          |       |            | 1615                                    |           |              |          |          |                        |           |           |  |  |
|          |                 |          |                                                  |              |                |           | 7        |          |          | <i>(</i> 1 | Chro       |   | h n      | um                           | era                        | al)          | ٦              | ٢      | Т      |              |                 |          |       | ]          | П                                       |           |              |          |          |                        |           |           |  |  |
|          | √   Rejected    |          |                                                  |              |                |           |          |          |          |            |            |   |          | hrough numeral)<br>Cancelled |                            |              |                | "'   N |        |              | Non-El          |          |       |            | A                                       | Appeal    |              |          |          |                        |           |           |  |  |
|          | = Allowed ÷     |          |                                                  |              |                |           |          |          |          |            | Restricted |   |          |                              |                            |              |                |        |        | Interference |                 |          | C0    |            | 0                                       | Objected  |              |          |          |                        |           |           |  |  |
|          |                 |          |                                                  |              |                |           |          |          |          |            |            |   |          |                              |                            | L            | <u>'  </u>     |        | ,,,,,  |              |                 |          | Ц     |            |                                         |           | <del>-</del> |          |          |                        |           |           |  |  |
|          | Cla             | aim      | 8                                                |              |                | Da        | te       |          |          | $\neg$     | Claim 20   |   |          |                              |                            | Da           | ate            |        |        |              | ۱ (             | Cli      | aim   | Ι          | Date                                    |           |              |          | _        |                        |           |           |  |  |
|          |                 |          | 1/20/1                                           |              |                |           | $\Box$   |          |          | П          |            | _ | a        | 4                            |                            | T            |                | T      |        |              | $\prod \mid$    |          |       |            | П                                       |           | T            | Γ        |          | П                      |           |           |  |  |
|          | Final           | Original | -                                                |              | ı              |           |          |          |          |            | Final      | 1 | Original | 4.11/2/0                     |                            |              | i              |        |        | 1            |                 |          | Final | Original   |                                         |           |              |          |          |                        |           |           |  |  |
|          |                 |          | 1/2                                              | $\perp$      | _              | L         | ot       | L        |          | Ш          |            |   |          | 7                            | $\perp$                    |              | $\perp$        |        | _      | L            | Ш               |          |       |            | Ш                                       | _         | $\perp$      |          |          | Ш                      | $\Box$    |           |  |  |
| ŀ        |                 | 1 2      | Н                                                | $\dashv$     |                | ╁         | ╁        | ┝        | $\vdash$ | $\dashv$   | -          |   | 51<br>52 | <u> </u>                     | $\dashv$                   | $\dashv$     |                | ╁      | +      | ╁            | $\vdash$        |          |       | 101<br>102 |                                         |           | ╁            | ╁        | ╀        | H                      | $\dashv$  | -         |  |  |
| Į        |                 | 3        |                                                  | $\Box$       | 士              |           |          |          |          |            |            | 1 | 53       |                              |                            | 1            |                | 1      | 1      |              |                 |          |       | 103        |                                         |           | 土            |          |          |                        |           |           |  |  |
| 1        |                 | 5        | Н                                                | $\dashv$     | +              | ╀-        | +        | L        | L        | Щ          |            | + | 54<br>55 |                              | 4                          | 4            | 4              | +      | 4      | +            | Н               |          |       | 104<br>105 | $\vdash$                                | +         | +            | ╄        | ╀-       | $\vdash$               | -         | 4         |  |  |
| ŀ        |                 | 6        | Н                                                | $\dashv$     | +              | +         |          | $\vdash$ |          | $\dashv$   | $\vdash$   |   | 56       | Н                            | +                          | +            | +              | 十      | +      | ╁            | $\vdash$        |          |       | 106        | $\vdash$                                | +         | +            | ╁        | t        | 1                      | $\dashv$  | ㅓ         |  |  |
| ļ        |                 | 7        | П                                                | $\Box$       |                | I         |          |          |          |            |            |   | 57       | $\prod$                      | $\Box$                     | $\Box$       | $\blacksquare$ | #      |        | $\perp$      | П               |          |       | 107        |                                         |           | $\perp$      |          |          |                        | $\Box$    |           |  |  |
| }        |                 | 8 9      | Н                                                | $\dashv$     |                | ╂         | +        | -        | H        | $\vdash$   | $\vdash$   |   | 58<br>59 | H                            | $\dashv$                   | $\dashv$     | +              | +      | +      | +            | H               |          |       | 108<br>109 | $\vdash$                                | +         | +            | ╄        | ╀        | Н                      | $\dashv$  | -         |  |  |
| ŀ        |                 | 10       |                                                  |              |                | $\dagger$ |          | -        |          |            |            | T | 60       | H                            | $\dashv$                   | $\top$       |                | $\pm$  | $\top$ | T            | П               | lt       |       | 110        |                                         | 1         |              | T        |          |                        |           |           |  |  |
| [        |                 | 11       | Ц                                                | $\dashv$     | $\perp$        | Ţ         |          |          |          |            |            |   | 61       | $\prod$                      | $\Box$                     | $\dashv$     | $\Box$         | Ţ      | Ţ      |              | П               |          |       | 111        |                                         |           | $\bot$       |          | Г        | П                      | 4         |           |  |  |
| }        |                 | 12<br>13 | Н                                                | $\dashv$     | +              | ╁         | ╁╌       | -        |          | $\dashv$   | $\vdash$   |   | 62<br>63 | +                            | +                          | +            | +              | ╁      | +      | ╁            | Н               |          |       | 112<br>113 | $\vdash$                                | +         | ╁            | ╁        | ╁        | Н                      | $\dashv$  | $\dashv$  |  |  |
| į        |                 | 14       |                                                  |              |                | 上         |          |          |          |            |            | T | 64       |                              |                            |              |                | 1      |        |              |                 |          |       | 114        |                                         | 上         |              | 上        |          |                        |           | ╛         |  |  |
|          |                 | 15<br>16 | $\forall$                                        | $\dashv$     | $\bot$         | ╀         |          | L        |          | Щ          | <u></u>    |   | 65<br>66 | ✓                            | 4                          | _            | 4              | +      | +      | ╀            | Н               |          |       | 115<br>116 | $\sqcup$                                | +         | +            | ╄        | ┞        | $\vdash$               | 4         | _         |  |  |
| ŀ        |                 | 17       | V                                                |              |                | ╁         | ╁        | Н        | Н        | $\dashv$   | -          |   | 67       | $\dashv$                     | $\dashv$                   | $\dashv$     | +              | +      | 十      | +            | Н               |          |       | 117        | $\vdash$                                | +         | ╁            | ╁╌       | -        | $\vdash$               | +         | ᅱ         |  |  |
| [        |                 | 18       | V,                                               | 耳            | 工              | 上         |          |          |          |            |            | 7 | 68       |                              |                            | 1            | 工              | I      | $\bot$ | $\perp$      | П               |          |       | 118        |                                         | 丰         |              |          |          |                        | $\Box$    | ゴ         |  |  |
| }        |                 | 19<br>20 | M                                                | +            | - -            | +-        | -        | _        | H        | _          | -          |   | 69<br>70 | $\dashv$                     | 4                          | +            | +              | +      | +      | ╀            | Н               |          |       | 119<br>120 | H                                       | +         | +-           | ┼-       | ├        | $\left  \cdot \right $ | 4         | ᅴ         |  |  |
| į        |                 | 21       | 7                                                | $\neg$       | $\top$         | T         |          |          |          |            |            | T | 71       |                              | ┪                          | T            | $\top$         | t      | +      |              | Н               | ŀ        |       | 121        |                                         |           |              |          |          | Н                      | $\exists$ | ヿ         |  |  |
| [        |                 | 22       | П                                                | $\Box$       | $\blacksquare$ |           |          |          |          |            |            |   | 72       | $\Box$                       | $\Box$                     | $\Box$       | $\perp$        | I      | Ţ      | L            | Ш               |          |       | 122        | $\Box$                                  | _         | L            | $\Box$   |          |                        | $\Box$    | $\Box$    |  |  |
|          |                 | 23<br>24 | H                                                | $\dashv$     | ╁              | ╁         | ╁╌       |          |          |            | $\vdash$   |   | 73<br>74 | -                            | $\dashv$                   | +            | ╫              | ╁      | +      | ╁            | H               | 1        |       | 123<br>124 | $\dashv$                                | +         | ╁            | $\vdash$ | ┝        | $\vdash$               | $\dashv$  | $\dashv$  |  |  |
| Į        |                 | 25       | Ш                                                |              | 上              |           |          |          |          | $\Box$     |            | 7 | 75       |                              |                            | 士            | 土              | İ      | İ      |              |                 |          |       | 125        |                                         |           |              |          |          |                        | 1         | ╛         |  |  |
| -        |                 | 26<br>27 | -+                                               | $\dashv$     | 4              | ╀         | $\vdash$ |          | Н        | _          | _          | 4 | 76<br>77 | 4                            | 4                          | 4            |                | +      | +      | +            | $\sqcup$        |          |       | 126<br>127 | -                                       | +         | +            | ╀        | L        | $\sqcup$               | 4         | 4         |  |  |
| F        |                 | 28       | Н                                                | $\dashv$     | +              | ╁         | $\vdash$ |          | Н        | $\dashv$   | $\vdash$   |   | 78       | $\dashv$                     | +                          | $\dashv$     | ╅              | +      | +      | +            | H               |          |       | 128        | -                                       | +         | +            | $\vdash$ | ┢        | $\vdash \vdash$        | ┪         | $\dashv$  |  |  |
|          |                 | 29       |                                                  | 耳            | 1              |           |          |          |          | $\Box$     |            |   | 79       |                              | _                          | 1            |                | 1      |        |              |                 |          |       | 129        |                                         |           |              |          |          |                        | $\Box$    |           |  |  |
|          |                 | 30<br>31 | Ш                                                | +            | +              | ╀         | $\vdash$ | _        | Н        |            | -          | _ | 30<br>31 | +                            | -                          | +            | +              | ╀      | ┿      | ╁            | $\vdash$        |          |       | 130<br>131 | $\dashv$                                | +         | ╁            | -        | ┝        | $\vdash$               | $\dashv$  | $\dashv$  |  |  |
| <u> </u> |                 | 32       |                                                  | $\forall$    | T              | t         |          |          |          | $\exists$  |            | 1 | 32       |                              | $\exists$                  | $\pm$        | 上              | T      | +      |              | $\Box$          | ŀ        |       | 132        |                                         |           | $\dagger$    | H        |          | 団                      | _         | $\exists$ |  |  |
|          |                 | 33       | V                                                | $\perp$      |                | ļ.,       |          |          |          | _          |            |   | 33       | $\Box$                       | $\exists$                  | 4            | Ŧ              | Ŧ      | Ţ      | $\perp$      | П               | [        |       | 133        |                                         | $\bot$    | $\bot$       | L        |          |                        | $\Box$    |           |  |  |
| }        | -               | 34<br>35 | $\overline{\mathbf{v}}$                          | +            | +              | ╁         | Н        |          | Н        | $\dashv$   | $\vdash$   |   | 84<br>85 | $\dashv$                     | $\dashv$                   | +            | +              | ╁      | ╬      | ╁            | H               |          |       | 134<br>135 | $\dashv$                                | +         | +            | $\vdash$ | ┝        | $\vdash$               | +         | ᅱ         |  |  |
|          |                 | 36       |                                                  |              |                |           |          |          |          | $\exists$  |            | 1 | 36       | コ                            | 1                          | 1            | 工              | T      | 士      |              | 口               |          |       | 136        |                                         |           | 丄            |          |          |                        |           |           |  |  |
| -        |                 | 37<br>38 | Ш                                                | +            | -              | -         | Н        | _4       | Н        |            | -          |   | 37<br>38 | +                            | 4                          | +            | +              | ╀      | +      | +-           | Н               |          |       | 137<br>138 |                                         | +         | $\bot$       |          | ┡        | Н                      | $\dashv$  | 4         |  |  |
| -        |                 | 39       | H                                                | $\dashv$     | +              | H         | H        |          | H        | _          |            |   | 39       | $\dashv$                     | $\dashv$                   | +            | +              | +      | +      | +            | Н               | 1        |       | 139        | -                                       | $\dagger$ | +            | H        | H        | Н                      | $\forall$ | ┪         |  |  |
|          |                 | 40       | Ш                                                | $\Box$       |                |           |          |          |          | $\Box$     |            |   | 90       | $\Box$                       | $\Box$                     | $\downarrow$ | $\perp$        | Ţ      | I      | L            |                 |          |       | 140        |                                         | $\perp$   | L            |          |          | П                      | 7         | $\exists$ |  |  |
| -        | $\dashv$        | 41<br>42 | Н                                                | $\dashv$     | +-             | ╁         | +        | -        | Н        |            | -          |   | 91<br>92 | $\dashv$                     | +                          | +            | +              | +      | +      | +-           | $\vdash$        | <b> </b> |       | 141<br>142 | $\dashv$                                | +         | +            | $\vdash$ | -        | $\vdash$               | $\dashv$  | $\dashv$  |  |  |
| t        |                 | 43       | Ш                                                | 士            | 士              |           | $\Box$   |          |          | $\exists$  |            | 1 | 93       | ╛                            |                            | 士            | $\perp$        | İ      | 1      |              |                 | į        |       | 143        |                                         | 士         |              |          |          |                        |           | ╛         |  |  |
| Ī        |                 | 44       | Щ                                                | Ţ            | $\perp$        | F         | П        | $\Box$   | П        | 4          |            |   | 94       | $\dashv$                     | $\Box$                     | Ţ            | T              | Ţ      | Ţ      | I            | П               | F        |       | 144        | $\Box$                                  | $\perp$   | I            | $\Box$   |          | П                      | 4         | $\exists$ |  |  |
|          | -               | 45<br>46 | ₩                                                | +            | +              | ╁         | H        | $\dashv$ | Н        | _          |            |   | 95<br>96 | $\dashv$                     | $\dashv$                   | +            | +              | +      | +      | +            | Н               | ŀ        |       | 145<br>146 | $\dashv$                                | +         | +            | $\vdash$ | $\vdash$ | H                      | $\dashv$  | ᅱ         |  |  |
|          |                 | 47       | Щ                                                | ightharpoons | 1              |           | П        |          |          |            |            | Ţ | 97       | $\perp$                      | $\Box$                     | $\downarrow$ | $\downarrow$   | T      | 1      |              | 口               | į        |       | 147        |                                         |           |              |          |          |                        |           | $\exists$ |  |  |
| -        | $\dashv$        | 48<br>49 | $\mathbb{H}$                                     | +            | +              | $\vdash$  | $\vdash$ | $\dashv$ | dash     |            | $\vdash$   |   | 98<br>99 | $\dashv$                     | $\dashv$                   | +            | _              | +      | +      | +            | $\vdash \vdash$ | -        |       | 148<br>149 | $\perp$                                 | +         | +            | $\vdash$ | <u> </u> | Н                      | $\dashv$  | $\dashv$  |  |  |
| <b> </b> | -               | 50       | <del>                                     </del> | +            | +              | $\vdash$  | $\Box$   | $\dashv$ | $\dashv$ | $\dashv$   |            |   | 00       | $\dashv$                     | +                          | +            | +              | +      | +      | +            | Н               | ŀ        |       | 150        | $\dashv$                                | +         | +            | $\vdash$ | $\vdash$ | ╁╌┼                    | +         | $\dashv$  |  |  |